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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/685,799	10/16/2003	David Reginald Adams	040283-0211	5143
22428	7590 08/04/2005		EXAMINER	
FOLEY AND LARDNER SUITE 500			BALASUBRAMANIAN, VENKATARAMAN	
3000 K STRE	ET NW		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20007			1624	

DATE MAILED: 08/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Astion Common and	10/685,799	ADAMS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Venkataraman Balasubramanian	1624				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailling date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ⊠ This	action is non-final.	•				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-18</u> are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No.						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
The attached detailed Office action for a list of the certified copies flot received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Report Notice of References Cited (PTO-892)						
Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						

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DETAILED ACTION

Claims 1-18 are pending.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-4 and 9-17, drawn to compound of formula I wherein X₁, X₂, X₃ and X₄ are nitrogen, namely tricyclictetrazinopiperazine, composition and method of use, classified in class 544, subclass 179.
- II. Claims 1-4and 9-17 drawn to compound of formula I wherein X_1 , X_2 , X_3 or X_2 , X_3 , X_4 are nitrogen , the other C-R₄, namely tricyclic1,2,3-triazino-piperazine, composition and method of use, classified in class 544, subclass 180, class 514, subclass 241.
- III. Claims 1-6 and 9-17, drawn to compound of formula I wherein X₁, X₂, X₄ or X₁, X₃, X₄ are nitrogen, the other C-R₄, namely tricyclic1,2,4-triazino-piperazine, composition and method of use classified in class 544, subclass 182, class 514, subclass 242.
- IV. Claims 1-17, drawn to compound of formula I wherein X_1 , X_2 or X_2 , X_3 or X_3 , X_4 are nitrogen, the other two C-R₄, namely tricyclicpyridazinino-piperazine, composition and method of use, classified in class 544, subclass 234, class 514, subclass 248.
- V. Claims 1-17 drawn to compound of formula I wherein X_1 , X_3 or X_2 , X_4 are nitrogen, the other two C-R₄, namely tricyclicpyrimidino-piperazine,

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composition and method of use, classified in class 544 subclass 251, class 514, subclass 267.

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- VI. Claims 1-6 and 9-17, drawn to compound of formula I wherein X_1 and X_4 are nitrogen, X_2 , and X_3 are C-R₄, namely tricyclicpyrazino-piperazine, composition and method of use, classified in class 544, subclass 346, class 514, subclass 249.
- VII. Claims 1-17, drawn to compound of formula I wherein one of X_1 , X_2 , X_3 , X_4 is nitrogen, the other three C-R₄, namely tricyclicpyridino-piperazine, composition and method of use, classified in class 544, subclass 360, class 514, subclass 250.
- VIII. Claims 1-18, drawn to compound of formula I wherein X₁, X₂, X₃ and X₄ are C-R₄, namely tricyclicbenzopiperazine, composition and method of use, classified in class 544 subclass 344, class 514, subclass 247.

The inventions are distinct, each from the other because of the following reasons:

As per MPEP § 803, there are two criteria for a proper requirement for restriction between patentably distinct inventions:

- (A) The inventions must be independent or distinct as claimed and
- (B) There must be a serious burden on the examiner if restriction is required.

 Invention I, II, III, IV, V, Vi< VII and VIII are independent and distinct from each other because they are directed to structurally dissimilar compounds that lack common core, namely, tricyclic-terazino-piperazine versus tricyclictriazinopiperazine, versus tricyclicpyrimidinopiperazine versus

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tricyclicpyridinopiperazine versus tricyclicbenzopiperazine core compounds. Consequently, the groups require separate classification and prior art searches. They can be made and used independently. Art, which may render obvious or anticipate one of the groups would not necessarily do the same for the other group. For example, references cited in the Information Disclosure Statement which may read on group VIII core compounds may not anticipate or render the other core compounds. Each can support a patent as the compounds of each group are capable of being utilized alone not in combination with other members listed in the Markush group.

In addition, it is necessary to classify and search all the hetero cores and such a search of all cores would serious search burden given the limited time available for each application.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

This application contains claims directed to the following patentably distinct species of the claimed invention: tricyclic-terazino-piperazine, tricyclictriazinopiperazine, tricyclicpyrimidinopiperazine, tricyclicpyridazinopiperazine, tricyclicpyridinopiperazine and tricyclicbenzopiperazine. See claim 18 for species of Group VIII.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1-17 are generic.

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Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions anticipated by the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

In view of distinct nature of each of the invention, the restriction is set forth in writing.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

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remaining in the application. Any amendment of inventorship must be accompanied by

a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication from the examiner should be

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addressed to Venkataraman Balasubramanian (Bala) whose telephone number is (571)

272-0662. The examiner can normally be reached on Monday through Thursday from

8.00 AM to 6.00 PM. The Acting Supervisory Patent Examiner (SPE) of the art unit 1624

is James O. Wilson, whose telephone number is (571) 272-0674. The fax phone

number for the organization where this application or proceeding is assigned (571) 273-

8300. Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (571) 272-

1600.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAG. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-2 17-9197 (toll-free).

Venhutaramm Balasubramanian

7/31/2005